

## A FLUORINATED HARD MASK FOR MICROPATTERNING OF POLYMERS

### Abstract of the Disclosure

The present invention discloses the formation of a hard mask layer in an organic polymer layer by modifying at least locally the chemical composition of a part of said exposed organic low-k polymer. This modification starts from an exposed surface of the polymer and extends into the polymer thereby increasing the chemical resistance of the modified part of the polymer. As a result, this modified part can be used as a hard mask or an etch stop layer for plasma etching.

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